Atmosphere Investigation

Integrated 7-Day Data Sheet

School Name _____ Study Site: ATM-_____

Day of the week							
Date							
Local time (hour:min)							
Universal time (hour:min)							
Observer names							

Cloud Type *(Check all types seen)*

Cirrus	❐	❐	❐	❐	❐	❐	❐
Cirrocumulus	❐	❐	❐	❐	❐	❐	❐
Cirrostratus	❐	❐	❐	❐	❐	❐	❐
Altostratus	❐	❐	❐	❐	❐	❐	❐
Altocumulus	❐	❐	❐	❐	❐	❐	❐
Cumulus	❐	❐	❐	❐	❐	❐	❐
Nimbostratus	❐	❐	❐	❐	❐	❐	❐
Stratus	❐	❐	❐	❐	❐	❐	❐
Stratocumulus	❐	❐	❐	❐	❐	❐	❐
Cumulonimbus	❐	❐	❐	❐	❐	❐	❐

Contrail Type *(Record the number of each type observed)*

Short-lived							
Persistent Non-Spreading							
Persistent Spreading							

Cloud Cover *(Check one- if sky not obscured)*

No clouds (0%)	❐	❐	❐	❐	❐	❐	❐
Clear (0% - 10%)	❐	❐	❐	❐	❐	❐	❐
Isolated (10% - 25%)	❐	❐	❐	❐	❐	❐	❐
Scattered (25% - 50%)	❐	❐	❐	❐	❐	❐	❐
Broken (50% - 90%)	❐	❐	❐	❐	❐	❐	❐
Overcast (90% - 100%)	❐	❐	❐	❐	❐	❐	❐
Sky obscured	❐	❐	❐	❐	❐	❐	❐

Contrail Cover *(Check one- if sky not obscured)*

None	❐	❐	❐	❐	❐	❐	❐
0-10%	❐	❐	❐	❐	❐	❐	❐
10-25%	❐	❐	❐	❐	❐	❐	❐
25-50%	❐	❐	❐	❐	❐	❐	❐
>50%	❐	❐	❐	❐	❐	❐	❐

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If Sky Obscured (Check all that apply)

Fog	❏	❏	❏	❏	❏	❏	❏
Smoke	❏	❏	❏	❏	❏	❏	❏
Haze	❏	❏	❏	❏	❏	❏	❏
Volcanic ash	❏	❏	❏	❏	❏	❏	❏
Dust	❏	❏	❏	❏	❏	❏	❏
Sand	❏	❏	❏	❏	❏	❏	❏
Spray	❏	❏	❏	❏	❏	❏	❏
Heavy rain	❏	❏	❏	❏	❏	❏	❏
Heavy snow	❏	❏	❏	❏	❏	❏	❏
Blowing snow	❏	❏	❏	❏	❏	❏	❏

Barometric Pressure   ❏ *Sea Level Pressure*   ❏ *Station Pressure*

Barometric Pressure (mbar)							
Local Time (Hour:Min)*							
Universal Time (Hour:Min)*							

* If different from other measurements

Relative Humidity

Dry bulb temperature (°C) - Sling Psychrometer							
Wet bulb temperature (°C) - Sling Psychrometer							
Relative humidity (%)							

Rainfall

Number of days rain has accumulated							
Rainwater in rain gauge (mm)*							

* Remember: Record 0.0 when there has been no rainfall.
  Record M for missing if there was rain and you weren't able to take an accurate reading.
  Record T for trace if the amount of rainfall is less than 0.5 mm.

Solid Precipitation

Total snowpack on the ground:

Depth sample 1 (mm)							
Depth sample 2 (mm)							
Depth sample 3 (mm)							

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Solid Precipitation *(continued)*

New snow on the snowboard:

Number of days snow has accumulated on the snowboard:							
Depth sample 1 (mm)*							
Depth sample 2 (mm)*							
Depth sample 3 (mm)*							

Rain Equivalent:

Rain equivalent of new snow on the snowboard (mm)							
Rain equivalent of total snow-pack on the ground (mm)							

* Remember: Record 0 when there has been no snowfall.
Record M for missing if there was snow and you weren't able to take an accurate reading.
Record T for trace amount of snowfall (too small to measure).

Precipitation pH

Measurement method for pH: ❑ paper ❑ meter

pH of the rain or melted snow:

pH sample 1							
pH sample 2							
pH sample 3							
Average							

pH of the melted snowpack:

pH sample 1							
pH sample 2							
pH sample 3							
Average							

Maximum, Minimum, and Current Temperatures

Current air temperature: (°C)							
Maximum daily air temperature: (°C)							
Minimum daily air temperature: (°C)							
Current soil temperature: (°C)*							
Maximum daily soil temperature: (°C)*							
Minimum daily soil temperature: (°C)*							

*Note: Daily soil temperature measurements apply to those using a digital max/min thermometer with a soil probe.

Add Comments on the back of this sheet: (Unusual conditions - date your comments)